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II. *An Account of Mr. Sam. Brown his Sixth Book of East India Plants, with their Names, Vertues, Description, &c. By James Petiver, Apothecary, and Fellow of the Royal Society.*

*To these are added some Animals, &c. which the Reverend Father George Joseph Camel, very lately sent him from the Philippine Isles.*

THE following *Plants* being less known, and more enquired for by *Curious Persons*, I took them out of several *Books* at different Seasons and placed them here together.

227. *Car-cai* Malab.

*Myrobalanus citrina* & *nigra* *Officinarum*.

*Myrobalan citrin* Pomet. l. 7. p. 221. Fig.

*Myrobalanifera Sorbi foliis* Jonst *Dendrolog*.

*Myrobalanus citrina* Park. 246. 1. Fig. *citrina folio* Sorbi, *Fragos*

54. c. 22. *citrinæ* IB. l. 2. p. 205. desc. 201. Fig. 2. *id.* pr. 7. lin. 16,

*Chabr.* 13. Fig. 3. *citrini* Ger. 1316. Fig. 2. *id.* emac.

*Myrobalanus citrina* & *flava* Dale Pharm. 443. 2. *flava* Garc.

116. Fig. 1. Azfar *Arabibus*, Arare *Cambayensibus* Aritiqui Me-

*dicis*. Clus. *Exot.* 195. Fig. 1. Ray H Plant, 1531. 2. *Myrobla-*

*ani* teretes *citrini* bitem purgantes CB. 445. 2.

*Myrobalan Indien* Pomet. l. 7. 221. Fig. c. 33.

*Myrobalani* *nigræ* octangulares C. B. 445. 4.

*Myrobalanifera Salicis folio* Jonst *Dendr.*

*Myrobalanus Indæ* *nigræ*, sine nucleis I. B. l. 2. p. 201. Fig. 1. Clus

p. 204. desc. *id.* pr. 7. l. 15. *Chabr.* 13. Fig. 2. *Inda* & *nigra* Of-

*fic*. Dale 443. 1. *Indica* Park. 247. 5. Fig. *Indica* aut *nigra* Sali-

*cis folio* *Fragos*. 54. c. 22. *Indica* five *nigra* Garc. 116. Fig. 2. C B. 445. 2.

Afuat *Arabib*. Rezanuale *Cambayensibus* Clus *Exot.* 125. Fig. 2. Pomet. l. 7.

Ray H. Pl. 1531. 1.

*Myrobalanus Indici* Ger. 1316. Fig. 4.

The *Yellow* and *Black* *Myrobalans*.

This the *Natives* say purges *Choler*, and cures the *Jaundice*,

D d d d d d

either

S. B. 227.

Pomet. l. 7. p.

221. Fig.

Jonst. Dend.

Tab.

Park. 246.

1 Fig.

Fragos. 54.

c. 22.

I. B. l. 2. p.

205, & 201.

Fig. 2.

IB. pr. 7. lin.

16. Chabr. 13

Fig. 3. Ger.

1316. Fig. 2.

Ger. em. Dale.

443. 2. Garc.

116. Fig. 1.

Clus *Exot.*

195. Fig. 1.

Ray H. Pl.

1531. 2.

C B. 445. 2.

Pomet. l. 7.

221. Fig. c. 33

GB. 445. 4.

*Joseph Dend.*  
*Tab.*  
 1 B. l. 2. p.  
 201. Fig. 1.  
 p. 20. 4.

either in Powder or Decoction; an Infusion in Cow-piss, cures *Dropsies* of all sorts. The *Fruit* well roasted and eaten with *Jagree* cures *Bloody Fluxes*, and with *Honey* cures *Cough* and *Astma*. These serve for a hundred things more, mixt with other *Physick*.

The *Fruit* when fresh are smooth and oval, when half ripe, *Green*, when full ripe some are *Yellow*, some *Purplish*, according as they respect the Sun or Shade. Either green or ripe, they have a very harsh taste. They grow 15 or 16 foot high, and almost a foot diameter. S. B.

S. B. 228.

228. Taune-Cai-Malab.

Dale 444. 4. *Myrobalanus Bellerica Officinarum* Dale Pharm. 444. 4. *Ger.*  
*Ger.* 1316. Fig. 1316. Fig. *Ger.* cm. 1500. Fig. *Park.* 247 Fig. 3. *Ray H. Pl.*  
*Ger.* cm 1500. Fig. *Park.* 247. 1532 5. *Myrobalani rotundæ Bellericæ CB.* 445. 3. *Bell* rotun-  
*Fig.* *Park.* 247. 1532 5. *Myrobalani rotundæ Bellericæ CB.* 445. 3. *Bell* rotun-  
*Fig.* 3. *diore IB.* l. 2. 201. Fig. & 206. desc. *IB.* pr. 7. l. 19. *Bellericæ*  
*Ray H. Pl.* 1532. 5. *Chabr.* 13. Fig. 6. *an Tani Malab. Gottinga Brach.* *Biborala Lu-*  
*1532. 5.* *fit,* *Heylpeeren Belg. Hort. Malab.* Vol. 4. *Tab.* 10. p. 23. *Ray*  
*C. B.* 445. 3. *H. Pl.* 1547. c. 53.  
*IB.* l. 2. 201. *3* 206.

The *Natives* say the Decoction with *Jagree* cures the *Gonor-*  
*1 B. pr. 7. l. 19.* *rhea.* See its other *Vertues*, in *Mr. Sam. Brown* his 3d Book of  
*Chabr.* 13. Fig. the *Phil. Transact.* No 271. p. 844. 96.

S. B. 3. 96. Of *Myrobalans* the *Natives* say the *Woods* hereabout produce  
*H. Mal. v. 4.* 7 forts, (besides the *Billerica* and *Emblica*, which they do not  
*Tab.* 10. p. 23. reckon of this *Species*) which are, viz.

1. *Carcai* or *Myrobalanus Citrina*. S. B. 227.
2. *Pala Carcai*, this I cannot get a good description of as yet.
3. *Pinge Carcai* *Myrobalanus Indica*.
4. *Deavatai Carcai* *Myrobalanus Chebula*.
5. *Shuracai Carcai*. They say is a finger long, and 2 or 3 thick.
6. *Neapaula Carcai*. No good description of this as yet.

*Danmantree Carcai*. This it's said is as big as the *Cydonia In-*  
*dica*, and like it both in form and smoothness. This they say  
 will purge as many times as it's smelt to: In the *Prosperity* of  
*St. Thomas* they were sold for 2 *Rupees* apiece; I am told that a  
*Moor* whose Name is *Emann Begg* has one of these, and if so, I'll  
 procure a sight of it. If these grow hereabout, as I am informed,  
 I'll procure them. nay, if within 200 miles of this place. Three  
 forts I have now procured, and sent their Specimens, viz. the  
*Myrob.* *Citrina* and *Bellerica* in this sixth book of odd Plants, and  
 the *Emblica* in the 3d No 106. I shall shortly have the *Mirob.*  
*Indica*, and then I'll send it. S. B.

Since

Since I made these Collections, I went again up the country, and in my way call'd at *Sange veras Pollum*, where many of the *Citrin Myrobans*, or *Carcai* Trees grow, and saw them gather the tender Fruit of the said Trees, which the Wind blew down on the ground; these the *Natives* having dryed well in the Sun differed nothing from the *Myrobalanus Indica*; the *Natives* also affirmed they were the *Pinge Carcai*, so that the *black* and *citrin Myrobalan* do both grow on one Tree. Of this after further enquiry will send a fuller account.

But I can't forbear adding, that what *Parkinson* condemns for an Error in *Mesue*, may not be so; the last asserts that the *Chebula*, *Citrina* and *Indica* grow all on the same Tree; the 2 last I know do, and it may be the first do so too, in the fertile soils of *Arabia* and *Persia*: (*India*, at least the Sea Coasts are sterile in comparison with them) but here the *Citrin Myrobalans* which grow in rich grounds, both Tree and Fruit is larger than the common, and tho the Fruit is not quite so large as those that come from the borders of *Persia*, or inland richer Soyls, yet are very much alike as to form, substance or taste. S. B.

229. Chandana-Maraum Malab.

S. B. 229.

*Santalum album* & *Citrinum Officinatum*.

Mus. Petiver

*Baccifera* Madraspatana *Glycyrbizæ* foliis, fructu coronato Mus-  
*Petiver*. 37. *Santalum album* and pallidum C B. 392. 1. 2. album  
 & citrinum Park. 1605. c. 47, IB. l. 4. 486. Fig. Chabr. 36. Fig. 5, 47.  
 6. Dale 478. 1. 2. Pomel l. 3. 107. c. 3. Ger. 1388. Ray H. Pl. IB. l. 1. 4 486.  
 1804. *Santalum verum ligno citrino* & albo, foliis Laurinis Breyn  
 prodr. 2. 88. 1. WHITE and YELLOW SANDERS.

C B. 392. 1. 2.

Park. 160. 5. c.

IB. l. 1. 4 486.

Fig. Chabr.

36. Fig. 5. 6.

Dale 478. 1.

1. Pomel. l.

Grows 40 or 50 foot high, and a foot or more diameter. The  
*Sanders* is only the heart of the Tree, the Sap is very large, al-  
 most equal to that of *Ebony*. The *Natives* use the Decoction as  
 a Specific in *Consumption* and *Hectick Feavers*, outwardly they  
 anoint with it, ground in *Rose-water*, to allay heat, and for the  
 smells fake.

3. 107. c. 3.

Ger. 1388.

em.

Ray H Pl.

1804. Breyn.

pr. 2. p. 88. 1.

N. B.

The *White Sandal* or *Sanders* is only the yellow fell'd too soon  
 before 'tis ripe, which is Cordial and Cooling.

S. B. 6. 230.

S. B. 2. 71.

The *Natives* reckon 3 sorts of *Sandal* or *Sanders*, viz. 1st,  
 This. 2dly, *Red Sanders*. S. B. 6. 230. 3dly, *Black Sanders*,  
 S. B. 2. 71.

230. Chum-maraum Malab.

S. B. 230

Mus. Petiv.

*Santalum rubrum* quibusdam, *Arbor Orientalis Ponnæ* facie Mus.  
*Petiver*. 679. INDIAN RED SANDERS.

679.

D d d d d d d 2

This

' This grows 16 or 18 foot *high* and one *thick*: Here is neither *Fruit* nor *Flower*, but I will get them by the next opportunity; The *Decoction* of the *Wood* expels *Wind*, eases *Gripes*; and is something cooling, corrects *Choler* and purifies the *Blood*: 'Tis where it grows in the *Woods* counted a general *Panacea*. S. B.

S. B. 231.

231. Mungle Malab. Veadaru Gent. BAMBU.

*Bambu Indica Sparganii capitulis, verticillis dispositis.*

This grows 40, and sometimes 50 foot *high*, and 6 inches *diameter*, the *Seed* is like *Sesamum* ( or *Gingelle*, as the *Malabars* call it ) which I will send another time. A *Decoction* of the *Leaves* and *Rind* dissolves clotted *Blood*, provokes the *Lochia*, and is mixt with other *Physick*, for many things: The *Salt* or white substance found within the *Bambu*, breaks the *Stone*, and provokes *Urine*. S. B.

S. B. 132.

232. Coche Tammartia Malab.

Ray H. Pl. Bilimbi Malabarica *Pajomiriobæ* folio.

1449. 7.

H. Mal. V. 3.

Tab. 45. 6. p. 55.

Bont. 133. Fig.

Zan. 17. & 25.

Pl. Mal. 167. 5.

Id. Fol. 42. 2. 5.

*Malus Indica*, fructu pentagono. Bilimbi dicta Ray H. Pl. 1449.

7. Bilimbi Malab. Malaki Karamboli Bram. Bilimbinos Lufit.

Blymbinen Belg. H. Mal. Vol. 3. Tab. 45. 6. p. 55. Billing-bing

Malaiis Bont. 133. Fig. an Belimbi arbor Zan. 17 and 25. Flor.

Malab. 167. 5. id. Fol. 42. 2. 5.

This is a *species* of S. B. 5. 207. grows 15 or 16 foot *high*, and *thick* as ones thigh: the *Fruit* is cooling and very sour, serves for *Atchar*, sweet meat, and is put in *Carries*. S. B.

This differs from S. B. 5. 207. in having much larger *Flowers*, and its *Leaves* longer and narrower, with 10 or more pair on each stalk, whereas the other has rarely more than five.

S. B. 233.

C. B. 401. 2.

Pluk Tab. 269.

Fig. 2. Alm.

Bot. 45. pl. 11.

Park. 1638.

c. 108. Fig.

Lugd. 1875.

c. 115. Fig.

IB. l. 1. p. 88.

c. 20. Fig.

IB pr. 3. c. 20.

Chabr. 4. Fig 3

Durant. 120.

Fig. Clus Exot.

29. c. 58.

H. Mal. v. 3 Tab

47. 8. p. 57.

233. Paringe Nellekai Malab.

*Charamei* Malabar. *Cassia fistula* folio.

Arbor exotica, fructu racemoso, *Charamais* dicta C. B. 401. 2.

Arbor. *Malabarica* Fraxini fera folio, officulo fructus octangular

Pluk. Tab. 269. Fig. 2. Alm. Bot. 45. pl. 11. lin. 25. *Charamei* Park.

1638. c. 108. Fig. *Acoft.* Lugd. 1875. c. 15. Fig. *Acoft.* fol. Pyri

IB. l. 1. p. 88. c. 20. Fig. IB. pr. 3. c. 20. *Chabr.* 4. Fig. 3. *Charameis*

*Cast.* Durant. 120. Fig. *Acoft.* aclus *Exot.* 292. c. 58. in *Canara*, *Decan.*

*Araznavali vulgo* *Charameis*; *Arabibus Persis & Turcis* *Ambela*.

*Neli pouli* seu *Billimbi altera minor* *Anvallis* *Bram*, *Cherame-*

*l. Lufit.* *Sucrcnoop* Belg. H. Mal. Vol. 3. Tab. 47. 8. p. 57. Ray

H. Pl. 1450. 8 Fl. Mal. 61. 2. id. Fol. 16. 1. 3.

This grows about 12 foot *high*, and almost as *thick* as ones thigh: here are 2 *jeris*, one bears *Fruit*, and the other not, (which

the

the *Hort. Malab.* also confirms) I take this for a sort of *Myrobalan*, and is the most pleasant of all I know as yet, having a very grateful acidity, and makes sweet Meats, *Achar*, &c. The *Portuguese* here call this *Cheremelas*, the *Natives* use it very little in *Physick*; the name signifies *Christians Myrobalan* or *Christians Nellecai*. S. B.

234. *Tumba maraum* or *Carpa maraum* *Malab.*

*Guajavæ fructu, arbor Madrasp. foliis Fagi maximis* *Mus. Pe-* *S. B. 234.*  
*tiver, 417. INDIAN EBONY.* *Mus. Pativer 417.*

This is the *Ebony* we use here; 'tis a very large tall Tree, about the Mountains of *Trippette*, 50 or 60 foot *high*, and about 3 foot *thick*; but those that grow nearer the Sea side are hardly one third of that bigness, containing little or no *Ebony*: the heart of the Tree only being *black*, which in the largest Trees seldom exceeds a foot, often less, the rest all white Sap: The *Fruit* is good to eat, being very sweet, like *Chetapaulum* and *Atapaulum*, S. B. 5. 193. the Seed of which last and these are exactly alike: I therefore count them to be of kin. I can't as yet learn that the *Natives* use this in *Physick*, except here and there one, who use it as an ingredient in their *Cuddanee* (which is Decoctions for the *Pox*) which possibly they may have done in imitation of the *Portuguese*, who do the same. S. B.

235. *Poon chedde* *Malab.*

*Waga sensitiva aquatica Malabarica non ramosa.*

*an Mimosa Orientales non spinosa, rarioribus ramis, floribus* *S. B. 235.*  
*spicatis* *Pluk. Tab. 307. Fig. 4. an Æschynomene mitis. 2, vel po-* *Pluk. Tab. 307.*  
*tius Herba casta Zeylanica filiquis latis compressis minoribus* *Fig. 4.*  
*Bryen. Cent. 47. Fig. Siliq. 52. 2. 3. Ladschini Bram. Totta Vaddi* *Breyn. Cent.*  
*Malais. Ray H. Pl. 981. 7. Niti Todda Vaddi Malab. Lauri Bram.* *47. Fig. 52. 2. 3.*  
*H. Mal. Vol. 9. Tab. 20. p. 35.* *Ray H. Pl. 981.* *7. H. Mal. v. 9.* *Tab. 20. p. 135.*

This is a *Species* of *Herba viva*, for if toucht it shuts its *Leaves* (tho very softly) which before were expanded, the branches do not move. It grows in *Ponds* from a light, spongy, long trailing *stalk*, which spreads much, is about a finger *thick* when wet, but when dry shrinks to a small matter, as may be seen by the white part of the stalk of this Plant, which serves for a *Root*: The *Natives* neither eat, nor use this in *Physick*, but they believe if the *Juice* of it be rubb'd on *Womans Breasts*, which are too big, it will make them little, and also will dry away *Milk*. S. B.

S. B. 236.  
H. Mal. v. 9.  
Tab. 21. p. 37.

236. Chaddai lackaree *Malab.*

*Waga sensitiva, Madraspatana*, ramosa, virgulis lignosis.

an Malam Todda vaddi *Malab.* H. Mal. Fol. 9. Tab. 21. p. 37. which the *description* better answers than the *Figure*.

This is another *Species* of *Herba Viva*, and grows on dry ground, the *Flower* is of a purplish colour when fresh: If you touch this Plant never so gently it will all fall down, and the *Leaves* shut together much more than the former. This is commonly eaten by the Natives as Food; it's of no use in *Physick*, but these People say that if the *Juice* of it be rubb'd on the Hands of any person, and he stroaks the Breasts of a Woman, 'twill cause her to love him; they are full of these ridiculous stories. S. B.

H. M. v. 9. p. 37. The *Hort. Malab.* also asserts Vol. 9. p. 37. that the Natives superstitiously believe it will provoke Love, and restore lost Virginity. To this let me add another species, viz.

S. B. 236, 1. *Waga sensitiva Madraspatana* non, vel minus ramosa. It differs from the last in being less branched, and its stalks long, very slender and not woody, the divarications of its Leaves are rarely 3 pair, and often but one; its *Flower* or *pods* differ not.

237. Mail Conei *Malab.*

S. B. 227.  
Alm. Bot. 5. pl.  
7. Breyn. pr. 1.

*Pavoninus* utriusque *Indiæ*, flore variegato.

v. 35. pl. 5.  
Breyn. pr. 2.  
p. 37. pl. 1.

*Acacia Orientalis* gloriosa, *Coluteæ* foliis, rachi medio ad geniculula solummodo spinis gemellis aculeata Alm. Bot. 5. pl. 7.

P. B. pr. 331. 1.  
Breyn. Cent.

*Colutea Indica*, platycarpus flore pavonino sive Flos *Indicus* pavoninus *Monaramal* Zingalenfibus Herman. not. Mss. Breyn. pr.

61. c. 22. Fig. opt. 2. pl. 35. p. 5.  
Breyn. pr. 1. p.

Crista pavonis *Coronillæ* folio 4. sive floribus spicatis amplissimis exaureo & coccineo variegatis, filiqua Pisi Breyn. Prod. 2. pl.

35. pl. 5.  
Ray H. Pl. 981.  
10. El. Bot.

37. pl. 1.

492 Inst. R.  
Herb. 619.  
DuRoiere 154.  
Cat. Pl. Jam.

*Erythroxylum Indicum* minus, spinosum, *Coluteæ* foliis, filiquis angustioribus, flore ex luteo & rubro eleganter variegato P. B.

pr. 333. 1.  
149. pl. 2.

Frutex *Pavoninus* sive *Crista Pavonis* Breyn. Cent. 61. cap. 22. Fig. opt. Breyn. prodr. 1. p. 35. pl. 5. Ray H. Pl. 981. 10.

*Poinciana* fl. pulcherrimo El. Bot. 492. Inst. R. Herb. 619.

*Poincyllane* ou *Fleur de S. Martyn* Dutertre 154.

*Sena spuria* arborea spinosa, foliis alatis ramosis seu decompositis, flore ex luteo & rubro specioso Cat. Pl. Jam. 149. pl. 2.

*Monarakudimbija* sive *Cauda Pavonis Zeylanenfibus*, *Foula de Pavan* *Lufst* *Tfetti* *Mandaru Malab.* *Tsjettia* *Bram.* *Paauwen* staarten

staarten Belg. Hort. Malab. V. 6. Tab. 1. p. 1, Flor. Malab. 91. 11. id. Fol. 23. 2. 11. St. Jago-Flower of Ligon p. 15 & 99. Flower Fence of Barbadoes. Wild Sena or Spanish Carnations of Jamaica. Cat. Pl. Jam. 140. 2.

Mr. Brown says these Flowers are consecrated to their Idols; and the Hort. Malab. affirms, that they are generally cultivated in their Gardens and Burying-places, it being there an ever-green, and very beautiful, bearing Flowers or Pods most part of the year, especially in May and August, and about our Christmas.

238. Shevanar calunga Malab.

S. B. 238.

Lilium Zeylanicum superbum Hort. Amst. V. 1. p. 69. Fig. 35. Lil. Zeyl. superbum vulgo H. L. Bat. 689. Fig. L. Zeyl. superb. rad. tuberosa, florem petalis coccineis-simbriatim reflexis. H. Bosc. 35. H. L. Bat. 689. Fig. a.n Methonica Malab. Niengala Zeyl. Mus. Zeyl. Mendoni Mal. H. Bosian. H. Arty Bram. Raiz d'empose Lusit. Croes-steen Belg. Hort. Malab. V. 7. Tab. 57. p. 101. Fl. Mal. 175. 4. id. Fol. 44. 2. 4. Ray H. Pl. 1915. The proud Zeylon Lilly.

Hort. Amst. v. 1. p. 69. Fig. 35. H. L. Bat. 689. Fig. H. Bosian. H. Mal. v. 7. Tab. 57. p. 101. Fl. Mal. 175. 4. id. fol. 44. 2. 4. Ray H. Pl. 1915.

When this grows near any thing that may support it rises 6 or 8 foot high: but by itself not above 3 or 4. the Leaves be low and at top alike; the Root is crooked, a finger thick, and about 4 inches long, white like Ginger, and used by the Natives as a general counter poison, which it expels by Vomit, Dose scri. in a cup of Vinegar, rub it on a Stone till it dissolves and mixes with the same: the Natives make an Oyl with this, Shevano weambo and Odinee. of the Root, Bark, Leaves, Fruit, Flowers &c. of these 3, which they cut small, and put into a very great Earthen-pot, covered with a flat earthen pan, and lute it on; in the bottom of the great Pot they make a hole big as a Sail Needle, to which they apply a small Pan to receive the Oyl, the great Pan being buried half way in the ground, they make a Fire round it with Cow Dung, till all the Oyl is distilled into the Pan below. This cures, they say, all sorts of venomous bites and Vonda guddee: but against that of the Cobree de Capello 'twill do no good, as I have tryed. S. B.

The Hort. Malab. takes notice that the Natives ascribe very great Sympathetical, Magical and other Metaphysical Operations, to that part of this Root which grows towards the North. Hort. Malab. V. 8. p. 108.

107.  
S. B. 230.  
Pluk. Tab. 172. Fig. 1.

239. Peape pingkai Malab.

Luffa Malabarica fructu reticulato sem. nigro. Cucumis Indicus striatus operculo donatus, corticose putamine tectus



Alm. Bot. 113. *tectus Pluk.* Tab. 172. Fig. 1. Alm. Bot. 123. pl. 12. *Cucumis syl.* pl. 12.

H. Mal. v. 8. *vestris Malabaricus* fructu striato amaro *Comel.* in H. Mal. V. 8.

Tab. 7. p. 7. 13P. 14.

H. Lugd. Bat. *Pepo Zeylanicus* reticulatus & fulcatus semine nigro. *Parad.* 482. pl. 4.

*Bat.* app. 11. pl. 2. an *Pepo Indicus* reticulatus feminibus nigris minor H. L. Bat. 482. pl. 4?

*Picinna Malab.* Gonsaly *Bram Patolas Lusit.* Traken Belg. H. Malab. V. 8. Tab. 7. p. 13. *Fl. Malab.* 97. 2. *id.* Fol. 25. 1. 2.

H. Mal. v. 8. The Root is 2 fingers thick a yard long; sometimes more, white  
Tab. 7. p. 13. both within and without, the Root and Fruit are very bitter and Cathartick; the Juice of the Fruit I have seen put up the Nose of an *Apoplectick Person*, which caused him to void much Slime and Filth by Mouth and Nose, and in 2 days recovered him, contrary to expectation. S. B.

This Plant is admirably delineated amongst *Dr. Herman's Designs*, mentioned in the end of his *Paradysus Batavus*, Printed A. D. 1698. in 4to; where the Flower, Seed, and a view of the reticulated pulp is there elegantly shewn, which neither the *Hort. Malab.* or *Dr. Plukenet's Figures* has express'd.

My worthy Friend Mr. *Edward Bulkley* some time since procured me a decorticated Fruit of this Gourd from *Persia* composed of curious reticulated Figures, as you may see it Figured in the xith Table of my *Gazophylacium Naturæ*.

S. B. 142. 240. *Narra Villan calunga. Malab.*

*Liliasphodelus Malabaricus angustifolius.*

H. Mal. v. xi. *Belutta Pola Taly Malab.* H. Malab. V. xi. Tab. 38. p. 75.

Tab. 38. p. 75. This has a bulbous Root big as a very large Turnip, the inside  
Alm. Bot. 219. of the Flower is White, the outside Red, has no smell: The Juice  
pl. xi. of the Root, or a Decoction of it, helps sharpness of Urine and Gonorrhœa. S. B.

Altho *Dr. Plukenet* in his *Almagest. Botan.* p. 219. pl. xi. hath quoted the *Hortus Malab.* for this Plant, yet since that in his *Mantissa* he hath made and altogether new.

To this let me add another which Mr. *Brown* sent me, gathered at *Arcaut* about *Fort St. George*, viz.

S. B. 240 1. *Liliasphodelus Malabaricus latifolius.*

H. Lugd. Bat. *Lilium Zeylanicum* umbelliferum & bulbiferum. *Tolabo Zeyla-*  
683. Fig. nemibus *Mus. Zeyl.* H. L. Bat. 683. Fig. *Sjovanna Pola Tali Ma-*  
H. Mal. v. xi. lab. Gola Kondo *Bram.* H. Mal. V. xi. Tab. 39. p. 77.

This Bulb is larger, and hath much broader Leaves than the last.

241. Coode tourae *Malab.*

*Phaseolus Emuyacus* foliis *Cajan* minoribus, filiquis *Orobi* ferrugineis.

an *Phaseolus* minor *Bisnagaricus*, foliis argenteo colore villosis, filiquis torosis brevibus spadicea hirsutis pubescentibus, fructu parvo Scaraboide nigro *Pluk. Tab. 52. Fig. 3. Alm. Bot. 290. pl. ult.* an *Phaseolus* *Zeylanicus* *Salviæ* foliis subrotundis mollibus & hirsutis *P. B. pr. 364. pl. 5.* an *Orcus* *Phaseolodes* *Zeylanicus* folijs *Salviæ* rotundis incanis subhirsutis *P. B. pr. 359. pl. ult.*

A Decoction of the Root ( which is a Finger thick and white ) cures Fevers. S. B.

That Curious Botanist Mr James Cuninghame first brought me this from *Emuy*.

242. Cantau verre or Calcau verre *Malab.* Anil *Madraspatana* trifoliata, filiquis carinatis hirtis. *H. Un. 35. Act. Phil. No 244. p. 330. pl. 35.*

The Decoction of the whole Plant cures Rheumatisms and Pains. This is wild Nil, but makes no Indigo. S. B.

243. Tipplelee *Malab.*

*Piper longum* Officinatum.

*Piper longum* *I. B. l. 15. p. 186. Fig. I. B. pr. 39. pl. 22. Chabr. 125. Fig. 6. Ger. 1355. Fig. Ger. emac. 1538. Fig. Park. 1604. Fig. Clus. Exot. 20. Fig. & 183. Fig. Fragos. 32. Garc. 94. an Piper longum Hern. 126. Fig? Tlatlancuaye & Ecapatli Mexic. Buyobuyo & Sabiam Phillipensibus.*

*Piper longum Orientale* *CB. 412. 3. an Piper longum Javanense* *Incolis Chiabe dictum Linschot. Ind. Or. p. 4. Fig. 30.*

*Pepe lungo Durant. 343. Fig.*

*Cattu Tirpali Malab. Bipali Bram. Pimenta Lusit. Lange* *Peper Belg. H. Mal. Vol. 7. Tab. 14. p. 27. Fl. Mai. 215. 2. id. Fol. 54. 2. 1.*

*Darfulful Arab. Pimpilim Bengal. Pis. Mant. Arom. 185. Fig.*

*Poivre long des Indes Pomet. l. 7. p. 191. Fig. c. 6. p. 196. an Poivre long de l'Amcrique Pomet. l. 7. 191. Fig. c. 7. p. 196.*

*Dale 495. 1. Ray H. Pl. 3143. 5.*

This is the true or Best Long Pepper: Here is in the Bazar another sort, bigger, but not so good, call'd by the *Malabars* *Auna Tipplelee*. The Natives use the small sort in many Distempers, as Fevers, want of Appetite, for Lying in Women, &c. but the other they do nothing with but give it as Physick to their Elephants. S. B.

E e e e e e

After

After *Dr Plukenet* has made 2 different *Long Peppers* of this one, viz. in his *Phytographia*, Tab. 104. Fig. 4. and in his *Mantissa*, p. 151. yet in the next line he says this *Tipplelee* of the *Malabars* is the *Piper nigrum præstantissimum*; which contradiction I know not how to reconcile.

S. B. 6. 244.

244. *Aumana maraum Malab.*

*Palma Madraspatana, Oleandri angustissimi folio.*

This is a large and strange species, as I believe, of the *Palm-tree*, the Body in all things resembles the *Coco-nut Tree* (Hort. Malab. Vol. 1. Tab. 1. p. 1. Ray H. Pl. 1356. 4. ) but the *Fruit* *Flower* and *Leaf* are different. I can learn no *Physical Use* it has as yet. S. B.

H. Mal. v. 1.

Tab. 1. p. 1.

Ray H. Pl.

1356. 4.

S. B. 6. 245.

Pluk. Tab.

120. Fig. 1.

245. *Varail chuddee Malab.*

*Chamæ-crista Pavonis Madraspatana minima, Nabatheæ foliis.*

This is another species of *Herba viva*, the Branches budge not, only the Leaves shut when toucht. The *Natives* grind it with *Breast Milk*, and anoint Infants who have the *Carpaum* or *Scab* with it. S. B.

Notwithstanding *Dr Plukenet* in his *Phytograph.* Tab. 120. Fig. 1. had given a good Cut of this from a Specimen I gave him, yet in his *Mantissa*, p. 131. he has been pleas'd to give it again as altogether New, with a Title very different from it.

246. *Conca maraum Malab. CASSIA FISTULA.*

246. *Cassia Fistula Officinarum,*

*Arbor Cassiam solitivam ferens Bont. 101. Fig. c. 10.*

*Casse des Isles Pomet. l. 7. 217. Fig. c. 30. 219.*

*Cassia Vessling. in Alp. p. 3. c. 2.*

*Cassia Egyptia sive purgans Cam. H. Med. 36. pl. 3.*

*Cassia Fistula Ger. 1242. Fig. opt. Ger. emac. 1431. Fig. Fra-*

*gof. 43. c. 14. Durant. 97. Fig. Alp. Ægypt. Ven. p. 1. c. 2. id.*

*Pat. 3. c. 2. Hern. 87. c. 55.*

*Cassia fistula Alexandrina C. B. 403. 1.*

*Cassia fistula les Antiles Rochfort. Hist. 77.*

*Cassia fistula Indica Zanon. 25.*

*Cassia fistula Occidentalis Nieremberg. Hist. Nat. 327. c. 88.*

*Cassia fistula seu Nigra Alexandrina Gefn. H. Germ. 251.*

*Cassia fistula vulgaris, fl. luteo Breyn. pr. 2. p. 26. pl. 5.*

*Cassia fistula & Cassia filiquosa purgatrix Lob. in Pharm. Rond.*

40.

*Cassia nigra Dod. Pemp. 787. c. 30. Fig.*

*Cassia purgatrix IB. l. 12. p. 416. c. 2. Fig. Chabr. 89. Fig. 3.*

*Cassia*

S. B. 6. 246.

Bont. 101. Fig.

cap. 10.

Pomet. l. 7.

217. Fig. c. 30.

219. Vessl. 3.

c. 2. Cam. H.

Med. 36. pl. 3.

Ger. 1242.

fig. opt. Ger. em.

1431. fig.

Frages 43. c.

14. Durant.

97. fig. Alp.

Ægypt. Pat. 3.

c. 2. Hern. 87.

c. 55 CB. 403.

1. Zan. 25.

Nieremb.

327. c. 88.

Breyn. pr. 2. p.

26. pl. 5 Lob.

- Cassia solutiva* IB. pr. 32. pl. 4. *Clus. Exot.* 271. c. 22. & 332. *in Pharm.*  
 c. 44. *Garc.* 122. c. 29. *Rond.* 40.  
*Cassia solutiva*. vulgaris *Park.* 234. c. 33. Fig. 1. *Dod. Pemp.*  
*Siliqua* aut *Cassia* purgatrix, *Arabum Carrobiis* similis *Adv.* 1B. pr. 32. pl. 4  
 414. *Clus. Exot.*  
*Siliqua Indica*, i. e. *Cassia fistula* quam veteras *Fabam Indicam* 271. c. 22. &  
 vocant *Cord.* 194. c. 24. 332. c. 44.  
*Chaiarz ambar Aegypt*, *Conna Malab.* Bajo *Bram.* Hort. *Malab.* *Park.* 234. c.  
 V. 1. Tab. 22. p. 37. *Quauhayovatli Mexican.* *Hern.* 87. c. 55. 33. fig. 1. *Adv.*  
*Dale* 505. 5. *Ray H. Pl.* 1746. c. 8. *Cat. Pl. Jam.* 145. pl. 1. 414. *Cord.*  
 This *Cassia fistula* is a very great Tree, the *Natives* reckon 4 *Hern.* 87. c. 55.  
 sorts of it, 1. This. 2. *Ckenyenne*, or *Chen conea*. 3. *Mail* H. Mal. v. 1.  
*Conea*. 4. *Mange Conea*. Put this only bears the purging *Cas-* Tab. 22. p. 37.  
*sia fistula*; the *Bark* of the *Root* is likewise purging: The *Na-* Dale 505. 5.  
*tives* Cure *Anasarca's* by applying boyl'd *Leaves* all over the *Ray H. Pl.*  
*Belly.* S. B. 1746. c. 8.  
*Cat. Pl. Jam.*  
 145. pl. 1.  
 S. B. 6. 247.

247. *Melleaarresh Malab.*

Is a great Tree grown on *Tripitté Mountains*, the *Natives* bath  
 in a *Decoction* of the *Wood*, *Bark* and *Leaves*, for *Rheumatick*  
 pains. S. B.

The *Fruit* and *Leaf* seem to belong to different *Plants*, the *S. B. 4. 147.*  
*first* very much resembles the *Samstravadi* S. B. 4. 147. and the  
*Leaf* is like that of a *Melon*.

Here follows some *ANIMALS*, &c. Observed in the  
*Philippine Isles*, by that Reverend and Learned Father  
 GEORGE JOSEPH CAMEL, from whom I  
 lately received them.

1 *Alto-Simius volans Cameli.* GAZOPHYL. nost NATU- S. B. 6 1  
 RAE Tab. 9. Fig. 8. GAZ NAT,  
 Tab. 9. Fig 8

*Calago & Cagvang Bysaiani.* *Gigua Pampangi & Tagali.*

This strange and wonderful Creature is about the bigness of a  
*Cat*, its body like an *Ape*, but slenderer; from *Head* to *Tail* are  
 3 spans, between the *Arms* extended 2, and the *Thighs* 1 and a  
 half. It's 3 spans from the fore to the hinder *Toes*, and as ma-  
 ny between the 2 fore *Legs*, but between the hinder ones it's but  
 2 spans. Its *Belly* an hand breadth, and the *Skin* from it a span.  
 They report, that in the *Province Pampang* they are as large as  
 a *Chinese Umbrell*, or 6 spans broad.

Eeeeeee 2

His

His *Hair* is brownish, on the back of a *Moufe-dun*, mixt with very curious white, strip'd down, like those Skins which the *German*s call *Fleck* (which perhaps is our *Fitchow* or *Pole Cat*) these are longer on the Body, and shorter on its membranous skin. This *Skin* is extended round its Body from Head to Tail like a *Bat*, with which being expanded, they fly slowly from the top of one Tree to the middle of the next, and then advance up by flying leaps,

It hath a *Monkeys Face*, flat round bald *Ears*, each Foot hath 5 crooked flat Lyon-like very sharp *Claws*: on the *Belly* of the *Females* are 2 little bags, to which the young ones cling and suck: We knew not what is their *Food*, but its probably *Fruit*. because their usual abode is on Trees,

See its *Figure*, as *Father Camel* sent it me, in the 9th *Table* of my *Gazophylacium Naturæ*.

S. B. 6. 2. 3. *Papilio Philippenfis* Maximus, lituris nigris mixtus.

This is somewhat bigger than No. 6. following, but the Body much the same, its higher and lower Wings on both sides have a *yellowish* cast next the Body, the rest *white*, almost equally mixt with various *black* spots, *Islets*, streaks, &c.

S. B. 6. 3. 5. *Papilio Philippenfis* permaximus nigrescens, campis aureis inferioribus alis pernotatis.

The *upper Wings* extended are more than 6 inches between the Tips, these are *blackish* next the Body, the rest feathered with grey: In the middle of each *lower Wing* are 7 or 8 *golden* shining *Fields* inclosed with black Veins; these are encompassed with a large black *Selvedge*  $\frac{1}{4}$  inch broad: Its *Body* black, *Belly* yellow, and *Rump* silvery.

S. B. 6. 4. 4. *Papilio Philippenfis* major nigrescens, campis aureis inferioribus alis pernotatis.

This is much less than the last, otherwise very like.

S. B. 6. 5. 5. *Papilio Luzonicus Calendulaceus* pallidus.

Mus. Petiv. 518. This differs from our *Papilio Javanicus Calendulaceus* Musci *Petiver*. 518. in having the upper Wings on both sides *whitish*, where that is *yellow*; but the *lower wings* are the same, and particularly the *Scarlet* spot under each Shoulder; these are somewhat more than 3 inches below the Tips.

S. B. 6. 6 6. *Papilio Luzonicus* maximus nigrescens, maculis coccineis subtus perbelle notatus. GAZOPHYL. nost. NATURÆ Tab. xi. Fig. 8.

The Body of this elegant and large *Butterfly* is black, as are its upper Wings on both sides, except a long Scarlet Spot on its Shoulders beneath, with another on its lower Wings; on the edges of these it's curiously beset with several others very beautiful to behold, imitating the finest *Chermesine*.

7. *Papilio Madraspatanus* nigrescens, maculis fanguineis pallidisque interspersis S. B. 3. 27. Act. Phil. No. 271. p. 862. 27. S. B. 6. 7.  
S. B. 3. 27.

8. *Papilio Philippensis* nigrescens non caudatus, maculis albis semicirculari. S. B. 6. 8.

This only differs from S. B. 3. 30. Act. Phil. No. 271. p. 862. 30. in being without a Tail.

9. *Papilio Philippensis* major, obscure fuscus, albis striis insulisque mixtis. S. B. 6. 9.

This and the next may be *Male* and *Fem ale*

10. *Papilio Orientalis* e fusco & albescente, striis maculisque mixtus S. B. 3. 32. Act. Phil. No. 271. p. 682. 32. S. B. 6. 10.

From the last this differs, in having its *Spots* and *Islets* white, it is also void of a particular black spot on a Vein near the middle of each lower Wing, which is very obvious in the other.

11. *Papilio Philippensis* major, pallide cærulescens, margine venisque nigricantibus. S. B. 6. 11.

This resembles the 2 last in the divisions of its colours and magnitude, but this has few or no spots on the edges, and is of a *bleak blue*, where the other is *white*.

12. *Papilio Orientalis* fuscus, umbra cærulescente albo basis circumscripta Mus. Petiver. 720. The Indian Blue Glow. S. B. 6. 12.  
Mus. Pet. 720.

This is mostly dark brown or blackish above, except in the middle of each Wing, where there is a large white field, which by reflection is encompassed with a glorious shining blue cast, which gains or loses according to the position of the light. Underneath it shines not, nor is its ground so dark as above, but adorn'd with *White Fields*, *Specks*, *Wars*, *Moons*, &c.

13. *Papilio Philippensis*, oculatus ferrugineus. S. B. 6. 13.  
This is a middling *Butterfly*, of a brown rusty colour, has 6 Eyes on each lower Wing, and laced on the edges.

14. *Papilio Philippensis* minor albut. macula & apicibus nigricans. S. B. 6. 14.

This is like one I have observed here in *England*, but less.

15. *Papilio Philippensis* minor luteus, marginibus superne nigricantibus. S. B. 6. 15.

I have 3 or 4 varieties like this from *Africa* and *America*; but this differs from them all, in having its dark Selvedge all round the Fly, which in its upper Wing is jagged.

- S. B. 6. 16. 16. *Papiliunculus Philippensis* c fusco cinereus, subtus pulchre notatus, humeris aurcis.

This small pretty *Insect* is  $\frac{1}{4}$  an inch broad, and near  $1\frac{1}{2}$  long, above of a dark hair colour, with pale in the middle, its ground underneath is half brown and pale, the Shoulders are elegantly striped with greenish shining Gold, and in its lower Wings are 7 oval black spots, set in a white Field.

- S. B. 6. 17. 17. *Papiliunculus Philippensis* c fusco cinereus, oculis tergeminis, alis inferioribus.

This is somewhat less than the last, brown above and cinereous underneath, near the angle of each upper Wing is one large black eye in a pale circle, and in the lower 3 pair, of different magnitudes, the largest in the middle.

- S. B. 6. 18. 18. *Papiliunculus Philippensis* cæruleus major, subtus marmoreatus.

This chiefly differs from the next in being larger (*viz.*  $1\frac{1}{4}$  inch long) and the spots on the lower Wings more obvious, particularly one at each Tail (which terminats in a Hair) as also 2 black speck near the Shoulders, which are not set in the next.

- S. B. 6. 19. 19. *Papiliunculus Philippensis* cæruleus minor, subtus, marmoreatus.

- S. B. 6. 20. 20. *Papiliunculus Philippensis* cæruleus, minor, subtus maculatus.

Mus. Petiv.  
318.

This comes next to our *Blue Argus* Mus- Petiver. 318. but is less